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08 *2022 IEC Texas Gulf Coast Graduation Ceremonies*

25 *2022 IEC Texas Gulf Coast Apprenticeship Wire-Off Competition*

28 *IEC Apprentice Programs*

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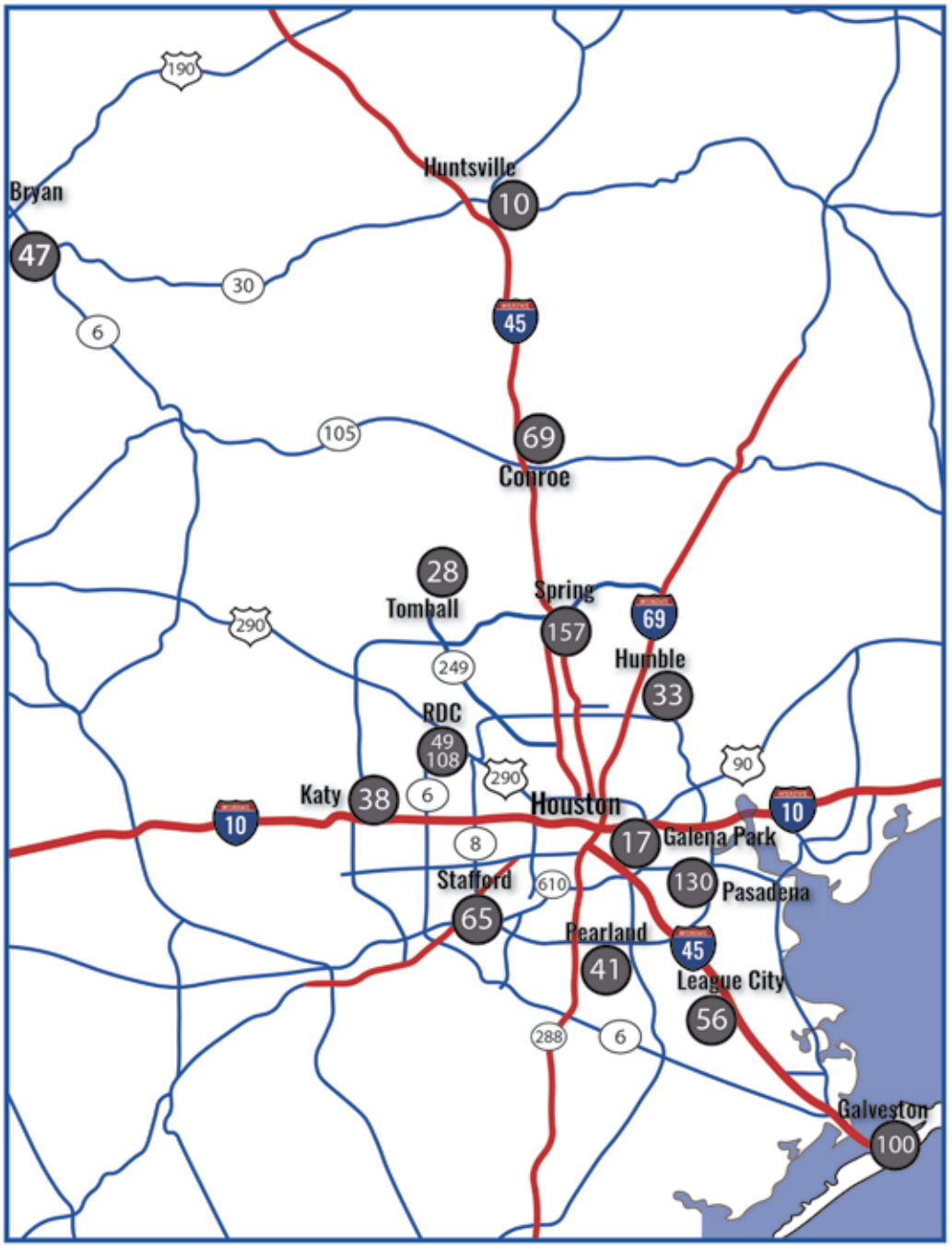

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Do You Know the History of Apprenticeship?

The idea of apprenticeships was first developed around the 1500s and was supervised by Craft Guilds and Town Governments. A master craftsman was entitled to employ young people as an inexpensive form of labor in exchange for providing food, lodging, and formal training in the craft.

Apprentices usually began between the ages of 10–15 and would live in the master craftsman's household. The contract was between the craftsman, the apprentice, and, generally, the apprentice's parents. The apprentice would be "indentured" (belonging) to the master craftsman and trained while they were provided room and board.

When the master felt they were ready, they could sit for the tests issued by the craft guild. After they passed the test, they then became a journeyman. A journeyman meant that they could leave the Master's household and journey back a forth to their own family home and still work. As they learned and performed more skills, they could then sit for the Master Craftsman Exam. If they passed, they then could open their own craft company and employ their own apprentices and journeymen.

The apprentice, journeyman, and master tradesman is still in place today. The only difference? Apprentices typically don't have to live with their bosses!

BICSI Telecommunication DOL Apprenticeship Program Coming to IEC TX Gulf Coast August 31, 2022!

IEC TX Gulf Coast has partnered with San Jacinto College and BICSI to provide a new Department of Labor Telecommunications Technician Apprenticeship Program. Starting August 31, 2022, anyone interested in attending or sending students will need to be a contractor member of the IEC to participate.

Just like IEC's other Apprenticeship Program, students in this program will attend class once a week and will be trained in OSHA 30 Safety, Electrician's Math, BICSI Installer 1, 2 (Copper and Optical Fiber), and Technician, Telecommunications – Structured Cabling, IT fundamentals, Internet of Things, Electrical Theory, Core Business Competencies, Network Security, Blueprint Reading, Firestopping Certification, and Telecommunications Bonding and Grounding (including Best Practices).

If you are an electrical contractor or a telecommunication/systems contractor, and would like more information, please contact our office at 713-869-1976. Ask to speak to either Gilbert, Alyssa, or Helene.

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Anna Box	4 years
Ryan Coperude	11 years
Daniel Culli	14 years
Craig Forner	4 years
Joseph Garcia	4 years
Vladimir Gargallo	5 years
Enrique Gonzalez	4 years
Gerardo Granados, Jr.	6 years
Brian Jernigan	9 years
Ronaldo Jimenez	4 years
Kenneth Milburn	4 years
Charlie Morris	16 years
Mike Nanyes	3 years
Thomas O'Boyle	18 years
Porfirio Perez, Jr.	16 years
Jose Ramirez	8 years
James Richards	17 years
Christopher Roberts	4 years
Juan E. Rodriguez	18 years
Gilbert Soliz	23 years
Daniel Vasquez	19 years
Kenneth Walley	12 years
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Jason Williams	20 years
Jason Wleczyk	4 years
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The Home Depot ProXTra Program
- Through the ProXTra Program, The Home Depot is able to contribute 0.5% of every dollar spent by IEC Members to the IEC Foundation. The IEC Foundation uses those funds for Scholarships, Apprentice Education, Chapter Development, Facility Improvements, and other programs.

The Equipment Grant Program
- IEC Foundation seeks to support not-for-profit organizations, to create opportunities introducing and guiding men and women to successful and satisfying careers in the electrical and communications industries through Equipment Grants.

IEC Foundation Scholarship Fund
- The IEC Foundation formed the scholarship fund exclusively for the charitable and educational purpose to award deserving and qualified students who have demonstrated drive, dedication and leadership in their pursuit of careers in the electrical industry.

Disaster Relief Fund
- The IEC Foundation has developed a special fund dedicated to supporting IEC chapters, chapter staff, instructors, and apprentices that have been affected by a natural disaster, serious accident, or catastrophic life event. By donating a tax-deductible contribution to the IEC Foundation Disaster Relief Fund, you can help those in need. Donations will be directly appropriated to a managed fund of the IEC.

IEC Foundation stakeholders provide critical support to IECF grants and scholarships. IEC's programs are regarded as among the best in the industry, and are recognized by the U.S. Department of Labor and State Apprenticeship Councils across the country.

"IEC and the Foundation helped me with tuition and became the perfect conduit to put me in touch with my current employer as one of their new engineers. I can't express in words how much I truly appreciate the help and support I have received, and still receive today from the IEC. I am also happy to have the chance to give back, whether it is sharing my story, going to high school career days, or community service events. I look forward to what the future holds for IEC, scholarship recipients, members, and my career which was jump-started with the help of IEC."

—Ross Sielhammer, IECF Scholarship Recipient

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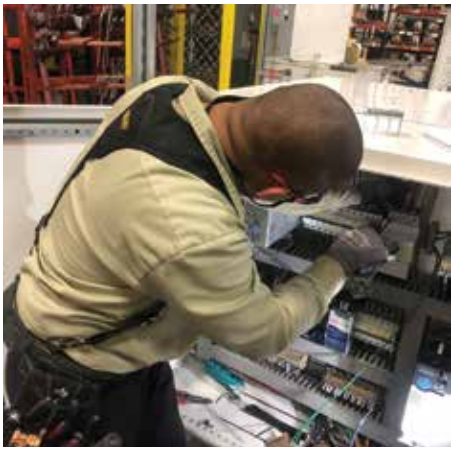

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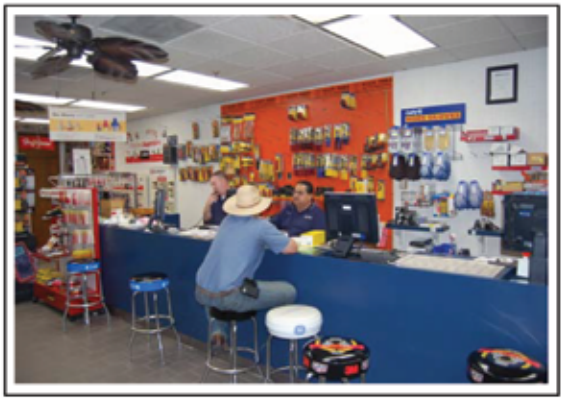

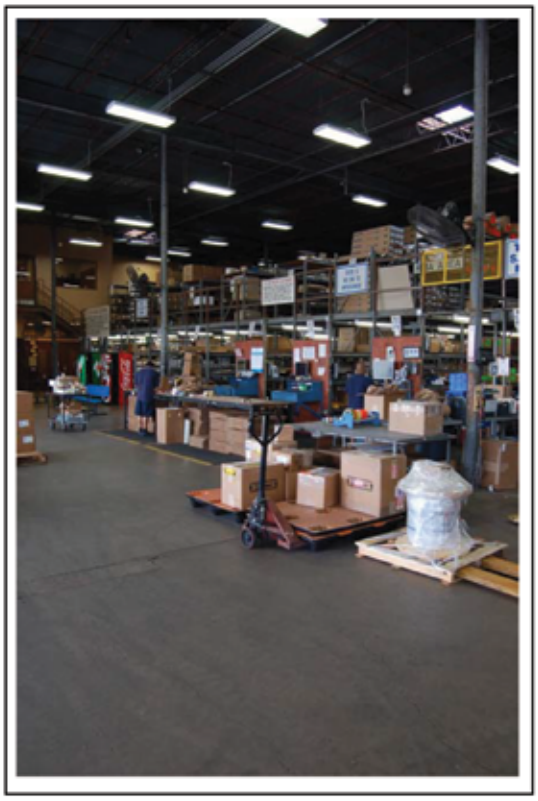

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Our work is everywhere you look - in the tallest buildings of downtown Houston, the Houston Medical Center, and in chemical, petrochemical and refining complexes along the Gulf Coast, Mexico, Singapore, Yemen, Saudi Arabia and more. Throughout the world, our experienced team is supplying the quality products, practical solutions, and customized services our customers need to complete projects on-time and on-budget.

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2022 IEC Texas Gulf Coast Apprenticeship

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IEC APPRENTICE PROGRAMS

Q. WHAT IS AN APPRENTICE?

Apprenticeship is a system of training a new generation of practitioners of a structured, competency-based set of skills. Apprentices or "protégés" build their careers from apprenticeships. Most of their training is done while working for an employer who helps the apprentices learn their trade or profession.

Q. WHERE DID THE TITLES MASTER, JOURNEYMAN AND APPRENTICE COME FROM, AND WHY ARE THOSE TITLES USED?

The system of apprenticeship first developed in the late Middle Ages and came to be supervised by craft guilds and town governments. A master craftsman was entitled to employ young people as an inexpensive form of labor in exchange for providing food, lodging, and formal training in the craft. Apprentices usually began at ten to fifteen years of age and would live in the master craftsman's household.

Once an apprentice finished his assigned indentured requirements, he would become a Journeyman. This meant he would "journey" to work, and he would no longer be living in the Master's home. As he journeyed, he would search for a place to make a living.

Once he set up his own shop and passed the licensing examinations required of the guild associated with his trade, he could then call himself a Master of his craft.

ELECTRICAL JOBS

The electrical field offers a diverse and rewarding career. Due to the shortage of skilled workers, you, your abilities, your drive, and your ambition determine how far you go.

You can start as a helper or apprentice and move on to become a journeyman electrician. Then you can continue your studies and move into a management position as a project manager or estimator. You determine how high on the ladder you climb.

There are many career opportunities in the field of electricity, and there is a shortage of qualified workers. Because society's need for electricity continues to increase, opportunities will exist into the future, regardless of changing technologies. Below is a sampling of some of the more common jobs available in the electrical contracting industry.

These are some of the career opportunities that are available:

ELECTRICIAN'S HELPER

Assists electricians by handling a bulk of the materials and caring for and organizing equipment.

APPRENTICE ELECTRICIAN

Installs, alters, adds, and/or repairs electrical systems, conductors, and associated materials and equipment under the supervision of a journeyman electrician (while completing 2,000 hours of on-the-job training and 144 hours of classroom instruction).

JOURNEYMAN ELECTRICIAN

Installs, alters, adds, and/or repairs electrical systems, conductors, and associated materials and equipment. May work independently of direct technical supervision and supervises apprentices. Holds a journeyman's license in states requiring journeyman licensing. Will read blueprints, terminate cable, and install and troubleshoot control wiring from drawings.

MASTER ELECTRICIAN

Installs, alters, adds, and/or repairs electrical systems, conductors, and associated materials and equipment. A master electrician may supervise journeymen electricians. This classification is sometimes synonymous with the term Electrical Contractor. This classification is not recognized in all states.

LEAD PERSON

Installs, alters, adds, and/or repairs electrical systems, conductors, and associated materials and equipment. Has a journeyman's license. Works from plans and specifications and supervises small crews of journeymen, apprentices, and helpers.

AREA SUPERVISOR

Installs, alters, adds, and/or repairs electrical systems, conductors, and associated materials and equipment. Has a journeyman's license. Leads and works along with crews. Lays out the work and makes certain that the proper materials, tools, and equipment are on the jobsite in their proper places. Schedules and may supervise one or multiple small crews.

PROJECT SUPERVISOR

Installs, alters, adds, and/or repairs electrical systems, conductors, and associated materials and equipment. Has a journeyman's license. This person is responsible for all the field employees on a project, taking care of daily reports and forms, monitoring the work, and adhering to schedules.

ESTIMATOR

Develops profitable bid proposals, calculates takeoffs, and ensures that the company's best interests are represented, including profitability and cost control. Provides careful analysis of project plans to guarantee accurate labor, supply, and time schedule estimates.

Successful electricians can become foremen, supervisors, or estimators; can move into management positions; and can even eventually run their own electrical contracting business. Your drive and abilities determine how far you go. There are no boundaries, and employment in the electrical industry provides equal opportunity for anyone who has the talent and desire to succeed.

IEC PROGRAMS OFFERED

WHAT PROGRAMS ARE OFFERED?

IEC offers two-, three-, and four-year apprenticeship programs to allow participants to gain the knowledge, technical skills, and practical experience necessary to succeed in today's electrical trade.

ELECTRICAL APPRENTICE TRAINING

While state and local requirements determine the exact duration of training, during a four to five year period, an apprentice electrician will receive at least 8,000 hours of paid on-the-job training and a minimum of 576 hours of related technical instruction covering topics such as:

- Safety, First Aid, and CPR
- Mechanical Skills
- Electrical Skills
- Electrical Theory
- Codes and Standards
- Residential, Commercial, and Industrial Wiring
- Fire Alarm, Signaling, and Life Safety Systems
- Lighting Systems
- Transformers
- Motors and Control
- Electrical Troubleshooting

RESIDENTIAL ELECTRICAL SPECIALIST APPRENTICE TRAINING

While state and local requirements will determine the exact duration of training, during a two- to three-year period, a residential electrical specialist apprentice will receive at least 4,000 hours of on-the-job training and a minimum of 288 hours of related technical instruction covering topics such as:

- Safety, First Aid, and CPR
- Mechanical Skills
- Electrical Skills
- Electrical Theory
- Codes and Standards
- Residential Wiring
- Residential Fire Alarm, Signaling, and Life Safety Systems
- Residential Lighting Systems
- Transformers
- Motors and Control
- Electrical Troubleshooting

DATA-TELECOMMUNICATIONS (VDV, LOW-VOLTAGE) APPRENTICE TRAINING

While state and local requirements will determine the exact duration of training, over a two- to three-year period, a data-telecommunications apprentice (sometimes called a voice-data-video (VDV) or low-voltage systems apprentice) will receive at least 4,000 hours of on-the-job training and a minimum of 288 hours of related technical instruction covering topics such as:

- Data and Telecommunications Cabling
- Copper and Fiber Optic Connections and Splices
- Life Safety Systems
- Security
- Audio and Video Systems
- Wireless Communications
- Building Automation

HOW TO GET STARTED

First, do you have what it takes?

The nature of the job demands that an electrician be in good physical condition and tolerant of working in varied climatic conditions such as heat, cold, rain, and snow. Other environmental factors include exposure to heights using ladders and scaffolds, risk of electrical shock, and lifting and moving heavy objects.

- You must have a high school diploma or GED and have good employability skills.
- You must have a reliable source of transportation to school and to the jobsite.
- You must be able to work independently and as a member of a team.

HOW TO APPLY

The application process varies by location so this is a general scenario.

1. Complete an application at your local IEC chapter office. Check with the local chapter for times and locations.
2. Pay a nominal application fee (usually $10–$20 depending on location).
3. Work for an IEC contractor or, if you are seeking a job, speak with the chapter office about placement with a local contractor.
4. Be a high school graduate, possess a GED, or be a high school youth apprentice.
5. Have a reliable form of transportation (preferably your own car) to get to and from classes and jobsites.
6. Take a math assessment test (varies by location).
7. Attend a program orientation.

Though not guaranteed, in many cases, employers pay for all or part of your training program and textbooks, plus you get paid to work full-time as an apprentice.

INDEPENDENT ELECTRICAL CONTRACTORS TEXAS GULF COAST

2022 Continuing Education Class Schedule

ELECTRICAL LICENSE RENEWAL CLASSES

Houston Facility – 4-Hour Course
Contractor Members.....$40.00
Non-Contractor Members.....$45.00

826..... Saturday, August 27, 2022 - 8 a.m.–12 p.m.

827.....(Spanish) Saturday, August 27, 2022 - 8 a.m.–12 p.m.

828.....Saturday, September 10, 2022 - 8 a.m.–12 p.m.

829... (Spanish) Saturday, September 10, 2022 - 8 a.m.–12 p.m.

830.....Thursday, September 15, 2022 - 9 a.m.–1 p.m.

831.....Saturday, September 24, 2022 - 8 a.m.–12 p.m.

832..... (Spanish) Saturday, September 24, 2022 - 8 a.m.–12 p.m.

EXAM PREPARATION CLASSES

347 ..... State Journeyman's Exam SPANISH Prep Class
Starts October 29, 2022 - 8 a.m.–12 p.m. (Saturdays, 6 weeks)
Course Contractor Members.....$265.00
Non-Members.....$315.00

346 .....State Journeyman's Exam Prep Class
Starts November 2, 2022 - 5 p.m.–8 p.m. (8 weeks)
Course Contractor Members.....$265.00
Non-Members.....$315.00

420 ..... State Master's Exam Prep Class • 2 Part Course - (1st part)
Starts August 27, 2022 - 8 a.m.–12 p.m. (6 weeks)
Course Contractor Members.....$350.00
Non-Members.....$420.00

Classes are first come, first serve!
PPE will be provided

Please provide contact info, if any required information is missing, your registration will NOT BE PROCESSED.

505 ..... Motor Controls Fundamentals of PLC's - 36 hour course
October 22, 2022–November 19
Mondays 6 p.m.–9 p.m. | Five Saturdays 8 a.m.–12 p.m.
For Members.....$430.00
Non-Members.....$505.00

Register for the course online at www.iectxgulfcoast.org

Email registration to admin@iectxgc.org or frontofc@iectxgc.org

CLASS NUMBER # ____ CLASS FEE $____

*****PLEASE PRINT NEATLY AND PROVIDE ALL INFORMATION*****

Name: _____ **Email:** _____

Electrical License#_____ ☐ **Houston License** ☐ **State License** **Type:** _____

Employer: _____

Home Address: _____ **City, State, Zip:** _____ **Phone#:**_____

Check enclosed ___ or Charge Credit Card #: _____**expiration**_____

Credit Card 3 or 4 digit Security Code #: _____

Credit Card Billing Address and Zip Code: _____

Name on Card (required for invoice or credit card):_____

******Member Contractors, please note-authorized signature is required to invoice the company.* ******

IEC reserves the right to cancel classes, change class location, dates, fees, class size and instructors.
NO REFUNDS or TRANSFERS within 3 business days before class begins.
NO CONFIRMATIONS SENT FOR THESE CLASSES

Wiser Energy System

Contractor Sell Sheet

Wiser Energy™ System from Square D,™ is an integral part of any smart home. Wiser Energy helps your customers keep tabs on their home by notifying them when devices are on or off and monitors energy usage in real time, as well as solar generation in solar applications. Adding Wiser Energy to your installations will broaden your competitive offer.

Wiser Energy Advantage:

- Easy to use intuitive app
- Simple installation into a new or existing electrical panel
- Takes less than 30 minutes to install and commission
- Solar kit available to see generation and return on investment from a solar installation
- Best in class support by Square D experts
- Create long lasting attachment with your customers
- Fleet Management view – Help reduce service calls with remote tracking of your customers' systems

schneider-electric.us

Life Is On

SQUARE D™
by Schneider Electric

IEC Texas Gulf Coast Chapter

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